# Mouse LC3A Monoclonal Antibody | anti-LC3A antibody

LC3A Mouse Monoclonal Antibody (5G10)

| CATALOG # | HOST | REACTIVITY | APPLICATIONS |
|---|---|---|---|
| **AAA30831** | **Mouse** | **Human, Rat, Mouse** | **Western Blot, Immunofluorescence, Immunocytochemistry, Immunohistochemistry** |

## PRODUCT SYNONYMS

LC3A; Monoclonal Antibody; LC3A Mouse Monoclonal Antibody (5G10); Microtubule-associated proteins 1A/1B light chain 3A (Autophagy-related protein LC3 A)(Autophagy-related ubiquitin-like modifier LC3 A)(MAP1 light chain 3-like protein 1)(MAP1A/MAP1B light chain 3 A)(MAP1A/MAP1B LC3 A)(Microtubule-associated protein 1 light chain 3 alpha); anti-LC3A antibody

## PRODUCT SPECIFICATIONS

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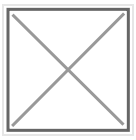
|---|---|
| **Host** | Mouse |
| **Reactivity** | Human, Rat, Mouse |
| **Clonality** | Monoclonal |
| **Clone Number** | 5G10 |
| **Specificity** | LC3A protein detects endogenous levels of LC3A |
| **Purity/Purification** | The antibody was affinity-purified from mouse ascites by affinity-chromatography using specific immunogen. |
| **Form/Format** | Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide. |
| **Concentration** | 1mg/ml (varies by lot) |
| **Applicable Applications for anti-LC3A antibody** | WB (Western Blot), IF (Immunofluorescence), ICC (Immunocytochemistry), IHC (Immunohistochemistry) |
| **Application Notes** | WB: 1:1000-2000<br>IHC: 1:100-200<br>IF: 1:200 |
| **Immunogen** | Synthetic Peptide of LC3A |
| **Modification** | Unmodified/Total |
| **Preparation and Storage** | Store at -20 degree C/1 year |

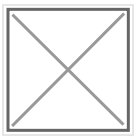
## IMAGES

**IF (Immunofluorescence)**
Immunofluorescence analysis of Hela cell. 1.CREB-1 Polyclonal Antibody(red) was diluted at 1:200(4 degree overnight). LC3A mouse Monoclonal Antibody(5G10)(green) was diluted at 1:200(4 degree overnight). 2. Goat Anti Rabbit Alexa Fluor 594 was diluted at 1:1000(room temperature. 50min). Goat Anti Mouse Alexa Fluor 488 was diluted at 1:1000(room temperature. 50min).

**IHC (Immunohistchemistry)**
Immunohistochemical analysis of paraffin-embedded Rat-kidney tissue. 1.LC3A Mouse Monoclonal Antibody(5G10) was diluted at 1:200(4 degree C.overnight). 2. Sodium citrate pH 6.0 was used for antibody retrieval(>98 degree C.20min). 3.Secondary antibody was diluted at 1:200(room temperature. 30min). Negative control was used by secondary antibody only.



**IHC (Immunohistochemistry)**
Immunohistochemical analysis of paraffin-embedded Human-uterus tissue. 1.LC3A Mouse Monoclonal Antibody(5G10) was diluted at 1:200(4 degree C.overnight). 2. Sodium citrate pH 6.0 was used for antibody retrieval(>98 degree C.20min). 3.Secondary antibody was diluted at 1:200(room temperature. 30min). Negative control was used by secondary antibody only.



**IHC (Immunohistochemistry)**
Immunohistochemical analysis of paraffin-embedded Human Prostate Carcinoma Tissue using LC3A Mouse mAb diluted at 1:200.

**IHC (Immunohistochemistry)**
Immunohistochemical analysis of paraffin-embedded Human Heptacarcinoma Tissue using LC3A Mouse mAb diluted at 1:200.

**WB (Western Blot)**
Western blot analysis of lysates from 1) Hela Cell Lysate. 2) 3T3 Cell Lysate. 3) Rat Brain Tissue cells. (Green) primary antibody was diluted at 1:1000. 4 degree over night. Dylight 800 secondary antibody(Assay Biotech:SA0438)was diluted at 1:10000. 37 degree 1hour. (Red) Actin ? Polyclonal Antibody (Assay Biotech:C40022) antibody was diluted at 1:5000 as loading control. 4 degree over night.Dylight 680 secondary antibody(Assay Biotech:SA0437)was diluted at 1:10000. 37 degree 1hour.

## ADDITIONAL INFORMATION

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|---|---|
| **Related Product Information for anti-LC3A antibody** | MAP1A and MAP1B are microtubule-associated proteins which mediate the physical interactions between microtubules and components of the cytoskeleton. MAP1A and MAP1B each consist of a heavy chain subunit and multiple light chain subunits.The protein encoded by this gene is one of the light chain subunits and can associate with either MAP1A or MAP1B. Two transcript variants encoding different isoforms have been found for this gene. The expression of variant 1 is suppressed in many tumor cell lines, suggesting that may be involved in carcinogenesis. [provided by RefSeq, Feb 2012] |
| **Product Categories/Family for anti-LC3A antibody** | Primary Antibodies |

## NCBI AND UNIPROT INFORMATION

| | |
|---|---|
| **NCBI GI #** | 85701362 |
| **NCBI GeneID** | 84557 |
| **UniProt Accession #** | Q9H492; Q9BXW5; E1P5P4; E1P5P5 |
| **Molecular Weight** | 14,272 Da |
| **NCBI Official Full Name** | Microtubule-associated proteins 1A/1B light chain 3A |
| **NCBI Official Synonym Full Names** | microtubule-associated protein 1 light chain 3 alpha |
| **NCBI Official Symbol** | MAP1LC3A |
| **NCBI Official Synonym Symbols** | LC3; LC3A; ATG8E; MAP1ALC3; MAP1BLC3 |
| **NCBI Protein Information** | microtubule-associated proteins 1A/1B light chain 3A; MAP1A/MAP1B LC3 A; MAP1A/1B light chain 3 A; MAP1A/MAP1B light chain 3 A; MAP1 light chain 3-like protein 1; autophagy-related ubiquitin-like modifier LC3 A |
| **UniProt Protein Name** | Microtubule-associated proteins 1A/1B light chain 3A |
| **UniProt Gene Name** | **MAP1LC3A** |
| **UniProt Synonym Gene Names** | MAP1A/MAP1B LC3 A |
| **UniProt Entry Name** | MLP3A_HUMAN |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.